



F 1 S Y S T E M

THE F1 BASS BOX ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The loudspeaker system shall be a flyable two box system, with a 18" horn loaded bass bin and a two way topbox, comprising a proprietary 5.5" exit hornloaded midrange compression unit and a 1.4" exit compression driver mounted on a high frequency horn. The loudspeaker system shall operate with a separate electronic system controller in either two- or three-way mode.

The bass bin shall consist of a 18," 4" voicecoil low frequency transducer loaded with a hyperbolic horn flare including an integrated phase correction device mounted in a plywood enclosure. The bass bin cabinet shall be 3 point flyable.

The performance of the loudspeaker system combined with electronic system controller shall meet or exceed the following criteria:

Frequency response measured 1 metre on axis shall be 50–220Hz \pm 3dB.

The power handling shall be 350 watts R.M.S., 700 watts programme.

The sensitivity measured at 1 metre 1 watt input in half space conditions, using band limited pink noise shall be 108dB.

The maximum continuous SPL measured 1 metre on axis, using band limited pink noise shall be 133dB continuous 139dB peak. Nominal impedance shall be 8 ohms.

The connectors shall be of the XLR 3-pin type. One male, one female.

Dimensions shall be 572mmW x 813mmH x 790mmD (22.5"W x 32"H x 30"D). The weight shall be 74kg (163lbs).

The loudspeaker system shall be the Martin Audio **F1B**.

THE F1 MID/HIGH BOX ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The loudspeaker system mid/high shall be of 3 point flyable two-way type, backpanel user switchable active or passive operation via the integrated 1.5kHz passive frequency network.

The mid and high horn flares integrated with their transducers shall be of uniform coverage type, time coherently mounted and internally supported in a plywood enclosure.

The high frequency unit shall in active mode be internally protected for frequencies below its intended frequency passband, via the integrated power and frequency matching network.

The performance of the loudspeaker system combined with electronic system controller shall meet or exceed the following criteria:

Frequency response measured 1 metre on axis shall be 220–18000Hz \pm 3dB.

The dispersion at –6dB points shall be 65 H x 35 V.

The power handling shall be 150 watts R.M.S., 300 watts programme midrange, 50 watts R.M.S., 100 watts programme high, 200 watts R.M.S., 400 watts programme with integrated network.

The sensitivity measured at 1 metre 1 watt input in half space conditions, using band limited pink noise shall be 108dB mid, 110dB high, 108dB mid/high via the integrated network.

The maximum continuous SPL measured 1 metre on axis, using band limited pink noise shall be 130dB continuous, 136dB peak.

Nominal impedance shall be 8 ohms midrange, 16 ohms high. The recommended electronic system controller crossover points shall be 220Hz and 1500Hz 4 order L-R slopes.

The connectors shall be of the XLR 3-pin type, 2 male, 2 female.

Dimensions shall be 572mmW x 647mmH x 597mmD (22.5"W x 25.5"H x 23.5"D). The weight shall be 60kg (132lbs).

The loudspeaker system shall be the Martin Audio **F1MH**.

F 1 S Y S T E M S P E C F C A T I O N S

TYPE	Bi-amp/tri-amp two box sound reinforcement system
BANDWIDTH	50Hz–16kHz ± 3dB via MX4 controller
DRIVERS	1 x 18," 4" voice coil, 12" mid, horn loaded, 1.4" exit HF compression driver, horn loaded
RATED POWER	LF: 350W R.M.S., 700W programme MF: 150W R.M.S., 300W programme HF: 50W R.M.S., 100W programme
RECOMMENDED AMPLIFIER	LF: 800-1000W into 4Ω MF-HF: 400-550W into Ω
SENSITIVITY¹	LF: 106dB 1 watt/1 metre MF: 107dB 1 watt/1 metre HF: 110dB 1 watt/1 metre
MAXIMUM SPL²	LF: 133dB continuous, 139dB peak MF-HF: 127dB continuous, 133dB peak
NOMINAL IMPEDANCE	LF: 8Ω. MF: 8Ω. HF: 16Ω
DISPERSION (-6dB POINTS)	65° horizontal x 35° vertical, uniform coverage
CROSSOVER	220Hz, 1.5kHz via MX4

ENCLOSURE	18mm birch plywood construction
FINISH	Textured black paint
PROTECTIVE GRILLE	Perforated steel, black with 48% free air flow
CONNECTORS	3-pin XLR, 3 male, 3 female
FLYING POINTS	Triple point F2 system, 3 points top and bottom
DIMENSIONS (W x H x D)	Bass: 572 x 813 x 790mm. (22.5 x 32 x 31ins) Mid/high: 572 x 647 x 597mm. (22.5 x 25.5 x 23.5ins)
WEIGHT	Bass bin: 76kg (167lbs) Mid/high box: 62kg (136lbs)
SHIPPING DIMENSIONS (W x H x D)	Bass bin: 590 x 830 x 800mm. (23 x 32.5 x 31.5ins). Mid/high: 590 x 660 x 610mm. (23 x 26 x 24ins)
SHIPPING WEIGHT	Bass bin: 74kg (163lbs) Mid/high box: 60kg (132lbs)
ACCESSORIES	F2 flying kit

B A S S B O X

HEIGHT	813mm	32ins
WIDTH	572mm	22.5ins
DEPTH	790mm	31ins
NET WEIGHT	74kg	163lbs

M I D - H I G H B O X

HEIGHT	647mm	25.5ins
WIDTH	572mm	22.5ins
DEPTH	597mm	23.5ins
NET WEIGHT	60kg	132lbs

N O T E S

1. Sensitivity figures are measured in half space conditions at 1 metre with 1W input, using band limited pink noise.

2. Measured at 1 metre using band limited pink noise.

Trade Descriptions Act: Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice.

Martin Audio is committed to refining the state of the art of sound reinforcement by combining in-depth product and field application research with advanced manufacturing techniques. Every Martin product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.



Group of Companies



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